

CLAIMS

We Claim:

5 1. A polymer or copolymer of ethylene having a polydispersity index (Mw/Mn) less than or equal to about 20, and a film clarity of a 1 mil film less than or equal to about 30%.

 2. The polymer or copolymer of Claim 1, wherein the polydispersity
10 index is less than or equal to about 12, and the film clarity is less than or equal to about 20%.

 3. The polymer or copolymer of Claim 1, wherein the polydispersity
index is less than or equal to about 10, and the film clarity is less than or equal to
15 about 10%.

 4. The polymer or copolymer of Claim 1, further characterized by a density less than about 0.935 g/cm³.

20 5. The polymer or copolymer of Claim 1, further characterized by a melt index (MI) from about 0.01 to about 10 dg/min.

 6. The polymer or copolymer of Claim 1, further characterized by a high load melt index (HLMI) from about 8 to about 180 dg/min.

25 7. The polymer or copolymer of Claim 1, further characterized by a film haze of a 1 mil film at least about 60%.

8. The polymer or copolymer of Claim 1, further characterized by a melt strength of a 1 mil film greater than or equal to about 5.0 in.

9. The polymer or copolymer of Claim 1, further characterized by a
5 coefficient of friction less than about 0.55.

10. A film comprising the polymer or copolymer of Claim 1.

11. A molded product comprising the polymer or copolymer of Claim
10 1.

12. The molded product of Claim 11, wherein the molded product is a film, a sheet, a fiber, an extrusion molded product, an injection molded product, an expansion molded product, or a blow molded product.

13. The molded product of Claim 11, wherein the molded product is a multilayer product comprising more than one layer of the polymer or copolymer.

14. A polymer or copolymer of ethylene having a melt index (MI)
20 from about 0.01 to about 10 dg/min, and a film clarity of a 1 mil film less than or equal to about 30%.

15. The polymer or copolymer of Claim 14, wherein the melt index is from about 0.03 to about 7 dg/min, and the film clarity is less than or equal to
25 about 20%.

16. The polymer or copolymer of Claim 14, wherein the melt index is from about 0.05 to about 5 dg/min, and the film clarity is less than or equal to about 10%.

17. The polymer or copolymer of Claim 14, further characterized by a density less than about 0.935 g/cm³.

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18. The polymer or copolymer of Claim 14, further characterized by a film haze of a 1 mil film at least about 60%.

19. The polymer or copolymer of Claim 14, further characterized by a
10 melt strength of a 1 mil film greater than or equal to about 5.0 in.

20. A film comprising the polymer or copolymer of Claim 14.

21. A molded product comprising the polymer or copolymer of Claim
15 14.

22. The molded product of Claim 21, wherein the molded product is a film, a sheet, a fiber, an extrusion molded product, an injection molded product, an expansion molded product, or a blow molded product.

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23. The molded product of Claim 21, wherein the molded product is a multilayer product comprising more than one layer of the polymer or copolymer.

24. A polymer or copolymer of ethylene having a high load melt index
25 (HLMI) from about 8 to about 180 dg/min, and a film clarity of a 1 mil film less than or equal to about 30%.

25. The polymer or copolymer of Claim 24, wherein the high load melt index (HLMI) is from about 10 to about 150 dg/min, and the film clarity is less than or equal to about 20%.
- 5 26. The polymer or copolymer of Claim 24, wherein the high load melt index (HLMI) is from about 11 to about 100 dg/min, and the film clarity is less than or equal to about 10%.
- 10 27. The polymer or copolymer of Claim 24, further characterized by a density less than about 0.935 g/cm³.
28. The polymer or copolymer of Claim 24, further characterized by a film haze of a 1 mil film at least about 60%.
- 15 29. The polymer or copolymer of Claim 24, further characterized by a melt strength of a 1 mil film greater than or equal to about 5.0 in.
30. A film comprising the polymer or copolymer of Claim 24.
- 20 31. A molded product comprising the polymer or copolymer of Claim 24.
- 25 32. The molded product of Claim 31, wherein the molded product is a film, a sheet, a fiber, an extrusion molded product, an injection molded product, an expansion molded product, or a blow molded product.
33. The molded product of Claim 31, wherein the molded product is a multilayer product comprising more than one layer of the polymer or copolymer.

34. A polymer or copolymer of ethylene having a film haze of a 1 mil film at least about 60%, and a high load melt index (HLMI) from about 8 to about 180 dg/min.

5 35. The polymer or copolymer of Claim 34, wherein the film haze of a 1 mil film is at least about 70%, and high load melt index is from about 10 to about 150 dg/min.

10 36. The polymer or copolymer of Claim 34, wherein the film haze of a 1 mil film is at least about 70%, and the high load melt index is from about 11 to about 100 dg/min.

15 37. The polymer or copolymer of Claim 34, further characterized by a polydispersity index (Mw/Mn) less than or equal to about 20.

 38. The polymer or copolymer of Claim 34, further characterized by a density less than about 0.935 g/cm³.

20 39. The polymer or copolymer of Claim 34, further characterized by a melt index (MI) from about 0.01 to about 10 dg/min.

 40. The polymer or copolymer of Claim 34, further characterized by a melt strength of a 1 mil film greater than or equal to about 5.0 in.

25 41. The polymer or copolymer of Claim 34, further characterized by a substantially constant film haze measured at a film thickness from about 0.5 mil to about 1 mil.

 42. A film comprising the polymer or copolymer of Claim 34.

43. A molded product comprising the polymer or copolymer of Claim
34.

5 44. The molded product of Claim 43, wherein the molded product is a
film, a sheet, a fiber, an extrusion molded product, an injection molded product,
an expansion molded product, or a blow molded product.

10 45. The molded product of Claim 43, wherein the molded product is a
multilayer product comprising more than one layer of the polymer or copolymer.